Spring 2020

IT 240-002: Shell Scripting for Administrators

Stanley Senesy

Shell Scripting for Administrators
Syllabus
IT 240

Instructor: Stan J. Senesy (senesy@njit.edu)

Office: NJIT Newark, GITC rm. 3803. (973)596-5288

Office hours: Posted in Moodle

Texts: Foster-Johnson, Welch, Anderson, Beginning Shell Scripting, Wiley Publishing, Indianapolis, IN 2005
ISBN: 0-7645-8320-4

Schwartz, Phoenix, d Foy, Learning Pearl 6th edition, O'Reilly Media, Sebastopol, CA 2011.
ISBN: 978-1449303587

Version of the text(s) that are newer than listed here are fine, these are the minimum

Schedule: Tuesday & Thursday 11:30am – 12:50 pm in GITC 1301

Course Description

This course will introduce shell scripting in a multi-OS environment using the Bourne Again Shell (Bash). Topics covered will include scripting commands, regular expressions, controlling process and debugging. In addition, the Practical Extraction and Report Language (Perl) will be covered, showing how it may extend the built-in capabilities of the Bash shell.

Prerequisites

Although no formal prerequisites are listed for this course, it is expected that the student will have completed at least the first 2 years of the IT curriculum. While prior knowledge of Linux will benefit the student, it is not a requirement for the course.

Although lab resources will be available during class time, you should have access to a computer that meets NJIT's minimum computing requirements. This can be Windows, or OS X. We will discuss options available to you for completing homework during the first class session.

Grading:

Homework	20%
Labs	20%
Midterm	30%
Final Exam	30%

Grades will be computed on a straight scale out of 100 possible points: 90-100=A, 87-89=B+, 80-86=B, etc.

Lectures

I tend to use PowerPoint slides for the main points in my presentations, augmented with board-work when necessary. I'll post slides used for the course on Moodle at:

http://moodle.njit.edu

The slides will be posted in the discussion forums. You may also use Moodle when you wish to ask questions or discuss course material with other students asynchronously. Each class session will be divided into lecture, as well as 'hands-on' elements. We will use both of the texts during the course. Please make sure you have the 'Beginning Shell Scripting" text available at the start of classes.

Labs

You will be assigned an activity each week and given time to complete it in class. These are not 'take-home' assignments, they must be completed during the lab session.

Students who miss class due to an emergency or other legitimate excuse will not have that week's work counted against them, once the reason for the absence has been validated.

Homework

Homework will be assigned each week. It will usually consist of a short programming assignment similar to what we've covered in class. Homework will be due one week from assignment and should be turned-in through Moodle.

If you have an emergency (hospitalization, jury duty, military service, etc) that will cause you to miss a homework assignment, I will not count that against your overall grade once your documentation has been validated by the Dean of Students.

Assessment

The midterm and final will constitute a significant portion of your overall grade. Exam dates and times are listed in the course schedule. Both exams will contain information from the text, as well as the lecture portions of the course. The exams will be **performance based.**

If you must miss a class, lab, or exam because of a religious observance, it is your responsibility to report to me within the first two weeks of classes which days you will be missing.

Collaboration

You are encouraged to work together with your classmates in order to help your high-level understanding of the material presented in the course. Any solutions to assignments/exams/projects presented for credit must be work created **on your own**. Plagiarism, cheating, or any other anti-intellectual behavior will be dealt with as per the NJIIT Code of Academic Integrity. You can find a copy of the Code here:

https://www.njit.edu/policies/sites/policies/files/academic-integrity-code.pdf

Academic Policies (Please Read This Carefully)

Late work will be marked down according the following scale. The timestamp in Moodle will determine how late your work was (no exceptions):
0 – 24 hours = (-10) points
24 - 48 hours = (-20) points
48 – 72 hours = (-30) points
72 – 96 hours = (-40) points
> 96 hours = no credit

If you 're-submit' homework, the later timestamp will be used to determine if it is late. Once I've graded your work, you cannot modify it and turn it in again.

If you have an emergency (hospitalization, military service, or anything defined as an emergency by the University) please contact the office of the Dean of Students. I will not accept your doctors note, etc. They will validate it and get back to me at which point I will remove the late penalty from your work. Grades will not be posted until after the 96 hour period has expired.

I do not offer 'extra credit' assignments. Every student has an equal opportunity to earn the grade they'd like in the course. The overall point spread is broad enough that doing poorly on a single assignment or quiz should not significantly affect your grade.

I do not curve individual assignments. If, at the end of the course I determine that a curve is justified, then I will curve ALL final grades (either positively or negatively) equally. Grading scales are applied consistently across the entire class - no exceptions.